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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/754,133	01/05/2001	Yuji Yagi	MEIC:053A	6471
75	90 07/08/2003			
PARKHURST & WENDEL, L.L.P. Suite 210 1421 Prince Street			EXAMINER	
			CHANG, RICK KILTAE	
Alexandria, VA 22314-2805			ART UNIT	PAPER NUMBER
			3729	21
			DATE MAILED: 07/08/2003	-/

Please find below and/or attached an Office communication concerning this application or proceeding.

			/Y		
		Application No.	Applicant(s)		
		09/754,133	OSAKA-SHI ET AL		
	Office Action Summary	Examin r	Art Unit		
		Rick K. Chang	3729		
Period fo	Th MAILING DATE of this communication or Reply	appears on the cover sh	t with th correspondence address		
THE - Exte after - If the - If NC - Failt - Any	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO nsions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, ma . reply within the statutory minimum of irod will apply and will expire SIX (6) I atute. cause the application to become	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this communication.		
1)🖂	Responsive to communication(s) filed on s	<u>30 April 2003</u> .			
2a)⊠	This action is FINAL . 2b)	This action is non-final.			
3) Dispositi	Since this application is in condition for all closed in accordance with the practice und ion of Claims	owance except for formal der <i>Ex parte Quayle</i> , 1935	matters, prosecution as to the merits is C.D. 11, 453 O.G. 213.		
4)🖂	Claim(s) 24-36 is/are pending in the applic	ation.			
	4a) Of the above claim(s) not shown in Item	6 below is/are withdrawn	from consideration.		
<u> </u>					
6)🖂	6)⊠ Claim(s) <u>24,25,29,30,35 and 36</u> is/are rejected.				
l	Claim(s) is/are objected to.				
8)□	Claim(s) are subject to restriction an	d/or election requirement.			
	on Papers	- 4			
9)□	The specification is objected to by the Exam	iner.			
10) 🗆 -	The drawing(s) filed on is/are: a)□ ad	cepted or b) objected to b	y the Examiner.		
	Applicant may not request that any objection to	the drawing(s) be held in ab	eyance. See 37 CFR 1.85(a).		
11) 🗆 -	The proposed drawing correction filed on	is: a)□ approved b)□	disapproved by the Examiner.		
	If approved, corrected drawings are required in	reply to this Office action.			
12) 🗌 -	The oath or declaration is objected to by the	Examiner.			
Priority u	ınder 35 U.S.C. §§ 119 and 120				
13)	Acknowledgment is made of a claim for fore	ign priority under 35 U.S.	C. § 119(a)-(d) or (f).		
a)[☐ All b)☐ Some * c)☐ None of:				
į	1. Certified copies of the priority docume	ents have been received.			
	2. Certified copies of the priority documents have been received in Application No				
	3. Copies of the certified copies of the p application from the International see the attached detailed Office action for a l	riority documents have be Bureau (PCT Rule 17.2(a)	en received in this National Stage		
	cknowledgment is made of a claim for dome				
a)	The translation of the foreign language consoled The translation of the translati	provisional application has	been received.		
Attachment		•			
2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)		
J.S. Patent and Tra PTO-326 (Rev	***	Action Summary	Part of Paper No. 21		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

- 1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 24-25 and 35 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Abe (US 5,746,868).

Abe discloses in Figs. 1A-1E simultaneously and unitarily forming element 9 with protrusions and wiring patterns as well as deforming to form flat tops of element 9. Element 9 contains sintered product (col. 6, line 4).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abe (US 5,746,868) in view of Official Notice.

Abe teaches the invention as described with respect to claims 24-25.

Abe fails to disclose coupling electrically the protrusion with a semiconductor chip component.

Official Notice is taken that it is well known in the art to coupling electrically the protrusion with a semiconductor chip component to form a motherboard.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Abe by coupling electrically the protrusion with a semiconductor chip component, as taught by Official Notice, for the purpose of forming a motherboard.

5. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Abe (US 5,746,868) in view of Murakami (US 5,874,780).

Abe fails to disclose imposing a load on the protrusions.

Murakami discloses imposing a load on the protrusions (col. 5, line 66).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Abe by pressing the protrusions, as taught by Murakami, for the purpose of leveling the protrusions for better alignment and adherence with the mounting device.

Response to Arguments

6. Applicant's arguments filed 4/30/03 have been fully considered but they are not persuasive.

Fig. 1D shows the unitary and simultaneously forming step in the hole formed in Fig. 1C. Examiner is only interested in the formation as shown in Fig. 1D, not other extraneous steps as they are noted by the applicants.

Interviews After Final

7. Applicant note that an interview after a final rejection will not be granted unless the intended purpose and content of the interview is presented briefly, in writing (the agenda of the interview must be in writing) to clarify issues for appeal requiring only nominal further consideration. Interviews merely to restate arguments of record or to discuss new limitations will be denied. See MPEP 714.13 and 713.09.

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Conclusion

8. Please provide reference numerals to all the claimed limitations as well as support in the disclosure for better clarity. Applicants are duly reminded that a full and proper response to this Office Action that includes any amendment to the claims and specification of the application as originally filed requires that the applicant point out the support for any amendment made to the disclosure, including the claims. See 37 CFR 1.111 and MPEP 2163.06.

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rick K. Chang whose telephone number is (703) 308-4784. The examiner can normally be reached on 5:30 AM to 1:30 PM, Monday through Friday, except for maxi-flex day off (any one of working days).

The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1148.

RICHARD CHANG PRIMARY EXAMINER

RC July 1, 2003